Samsung Epic 4G Touchscreen Replacement

Installing a new touchscreen into your Samsung Epic 4G requires significant disassembly and careful attention to easily-damaged connectors and wiring.

Written By: Andrew Cunningham



INTRODUCTION

This guide shows how to remove the touch screen of the Samsung Epic 4G. Once the screen is removed, you may replace it and follow these directions in reverse order to reassemble your phone.

TOOLS:

- Tweezers (1)
- Phillips #000 Screwdriver (1)
- Spudger (1)

Step 1 — Phone Case



- Power off the phone using the "Power Button" located on the left side of the phone.
- Remove back panel of phone by sliding your fingernail along the edge of the device. The rear plastic panel will snap off from the remainder of the device.

Step 2 — Battery



- Remove the battery from the device by pulling up on the battery edge.

Step 3 — Removing the Memory Card:



- Remove the memory card from the device by gently sliding it out of its holder.

Step 4 — Removing the Back Housing

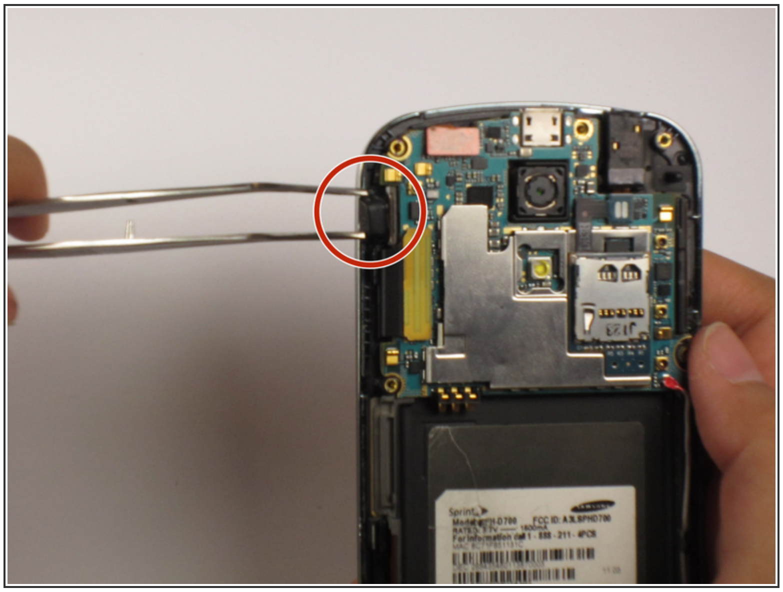




- Using the Phillips screwdriver, remove the seven screws from the back of the phone.
- Using a prying tool, separate the back housing from the silver trim around the phone.

While separating the two pieces, most of the buttons (including the power button) will fall out. Be sure to keep track of the buttons and use them for reassembly.

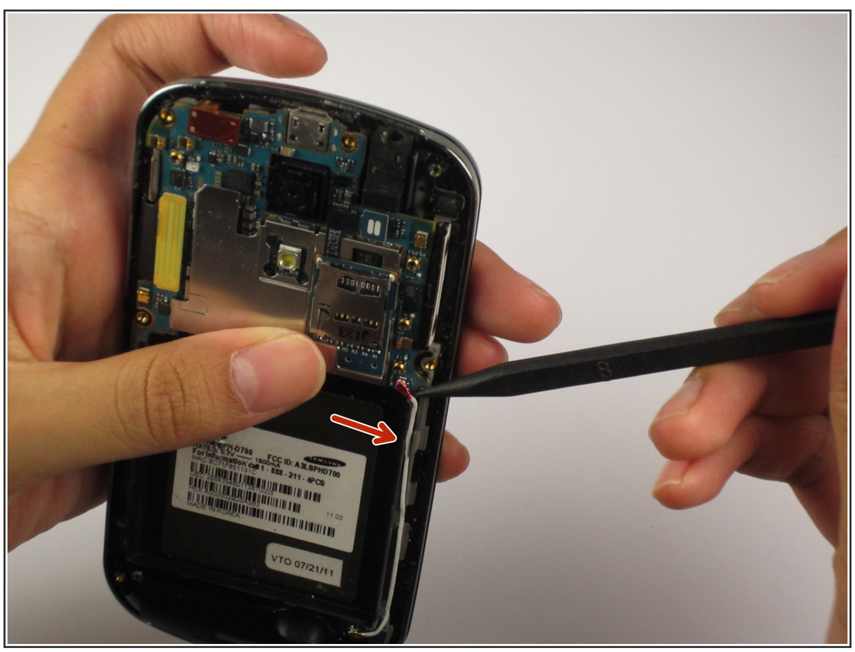
Step 5 — Removing the Power Button





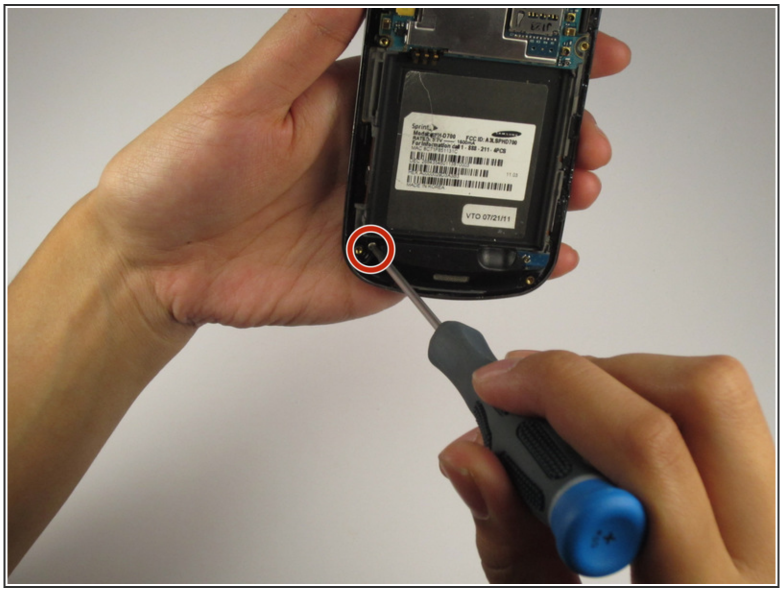
- Using the tweezers carefully remove the power button.
- ⓘ At this point, you can replace the button with a new one.

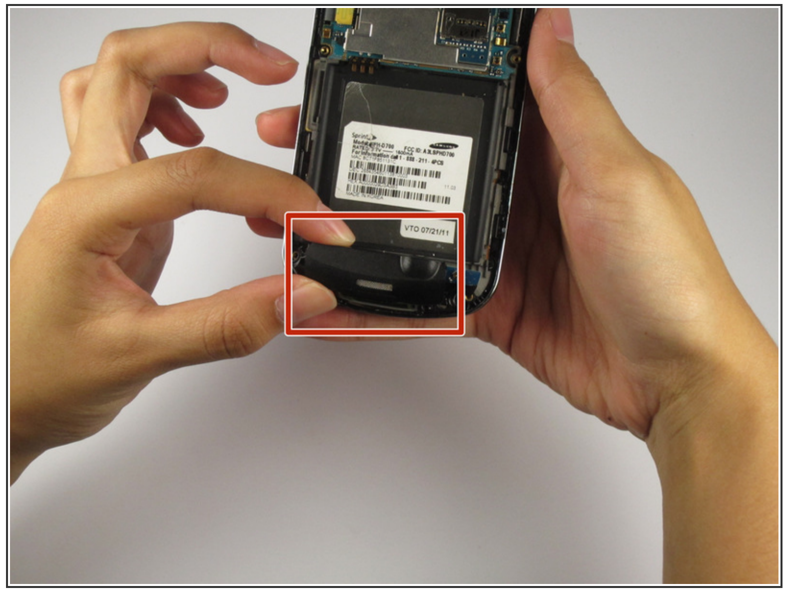
Step 6 — Micro USB Port



- Using the prying tool, carefully remove the white cable on the right side of the phone (next to the battery housing).
    - Carefully pull out both ends of the antenna. The two ends should easily snap out of place and should not be ripped out.

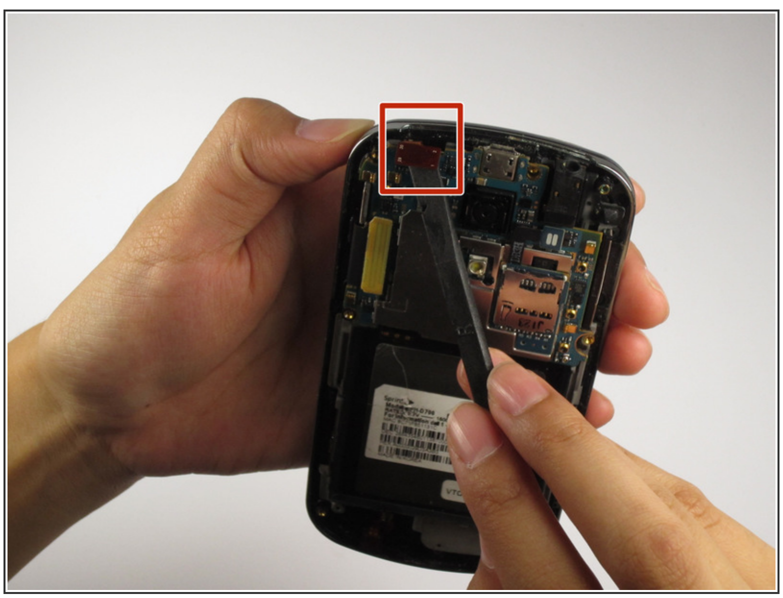
Step 7 — Removing the Antenna Assembly

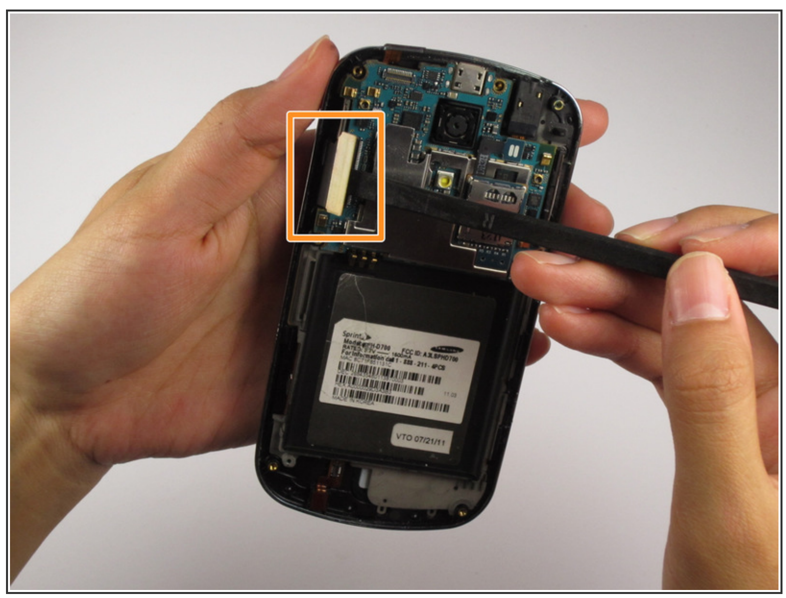




- Using a Phillips screwdriver, remove the screw holding the antenna assembly in place.
  - Once the screw has been removed, snap the antenna assembly out from the device.

Step 8 — Removing the Flex Cable





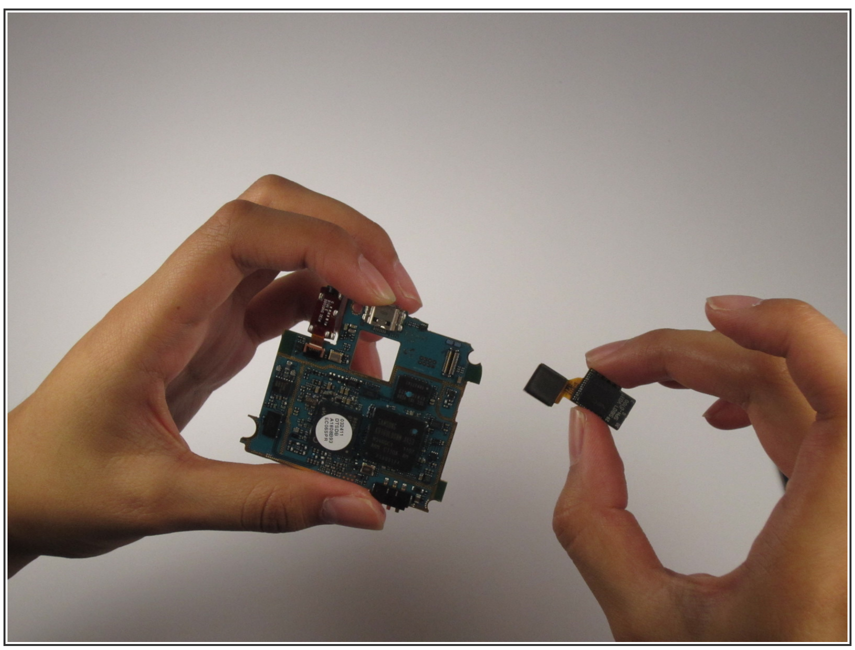
- Using the prying tool, carefully lift and snap off the flex cable from the top of the phone.
  - Repeat this step for the larger flex cable located on the left side of the device.

Step 9



- Using the prying tool, lift and remove the motherboard from the phone.
  - The USB port is located at the top of the motherboard. At this point, you can remove and replace the port with a new one.

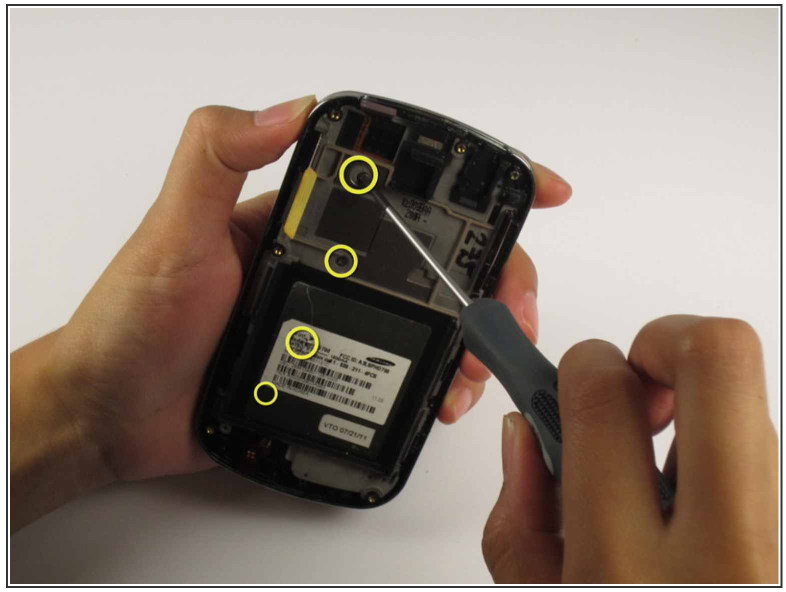
Step 10 — Camera Lens



- At this point you can remove and replace the Camera Lens.

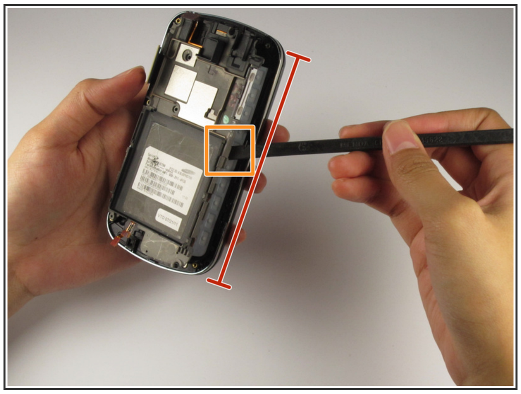
Step 11 — Keyboard

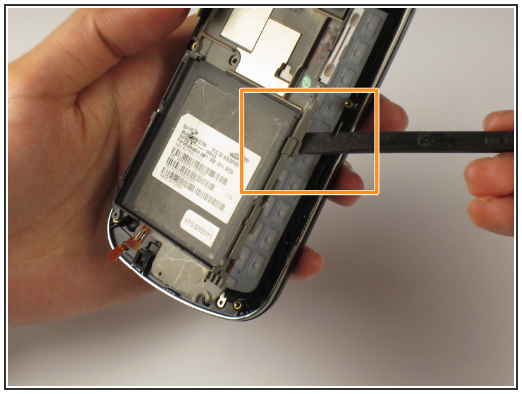


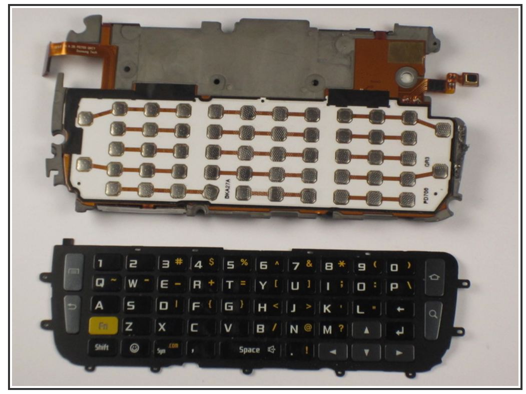


- Remove the white label/sticker.
    - You may choose to only remove the top left corner of the label (the only place a screw is covered by the label).
- Remove the four screws on the left hand side of the back-side of the device. Two of the screws are found behind where the white label was located, two are found directly above the label. You can remove the screws with a small Phillips screwdriver.

Step 12

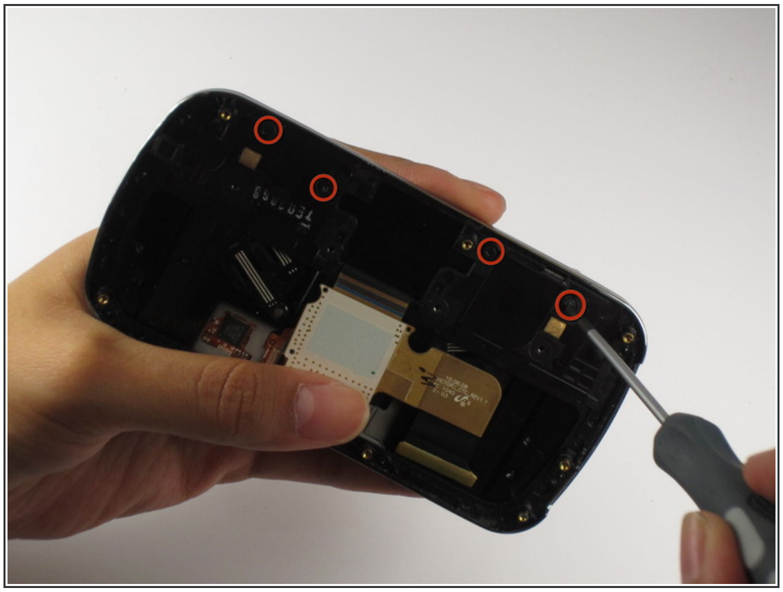
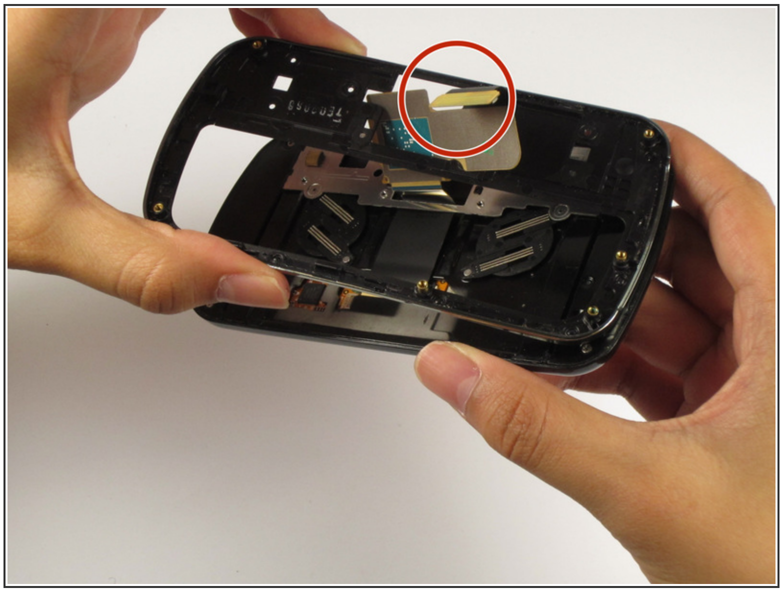






- Using a prying tool, lift up and loosen the metallic silver trim on the perimeter of the phone.
- With the prying tool, carefully remove the gray mid-plate.
  - Take extra caution to not destroy the QWERTY keyboard, which lies directly behind the mid-plate. Do not slide open the phone at this time.
- The mid-plate should be completely removed, for the keyboard to be completely separated from the device.
  - At this point, you may remove the original QWERTY keyboard and install a replacement keyboard. Installation is the reverse of removal.

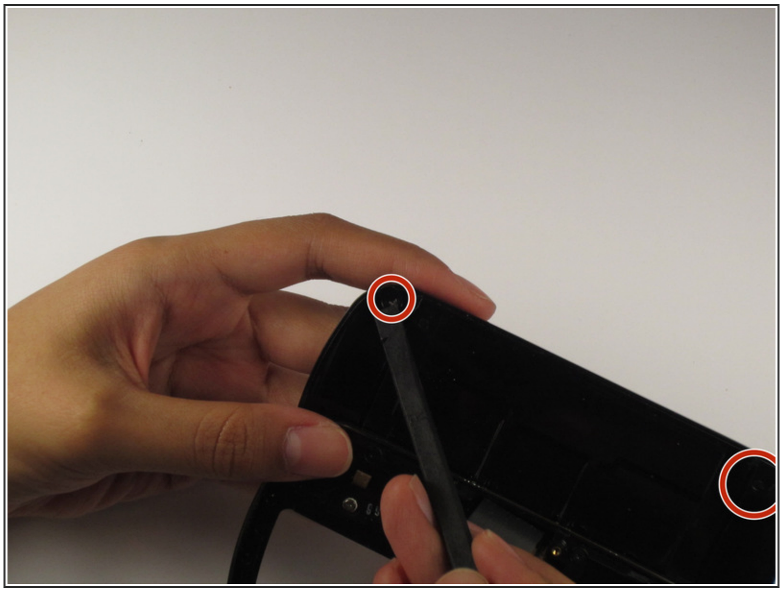
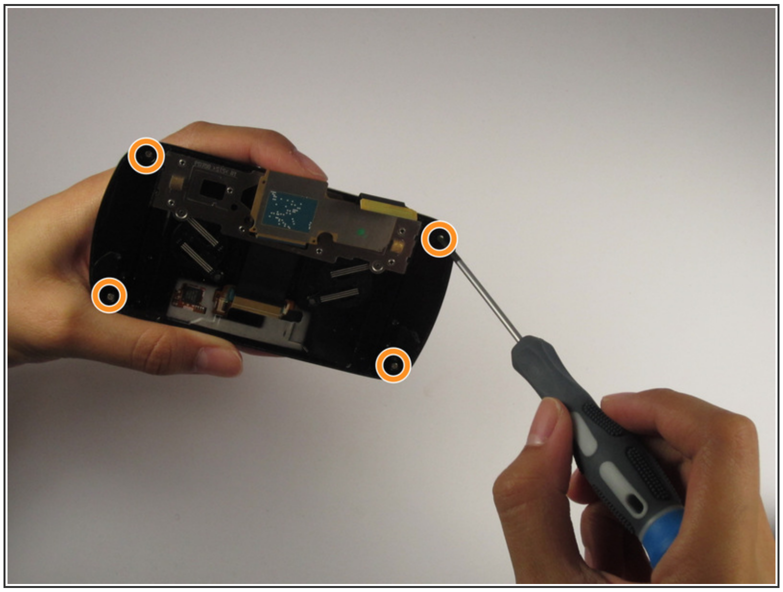
Step 13 — Removing the Keypad Housing:

- Remove the four Phillips #00 screws on the keypad housing.

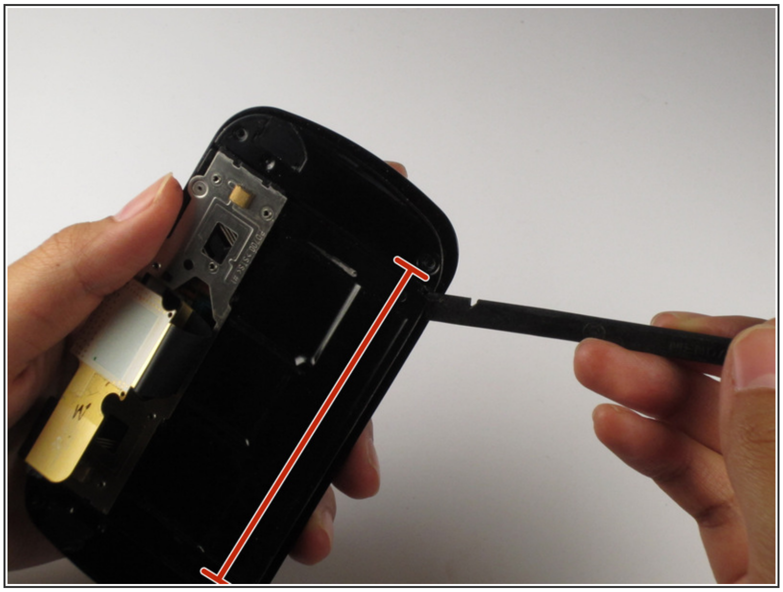
⚠ Carefully pull off the keypad housing while avoiding the flex cable.

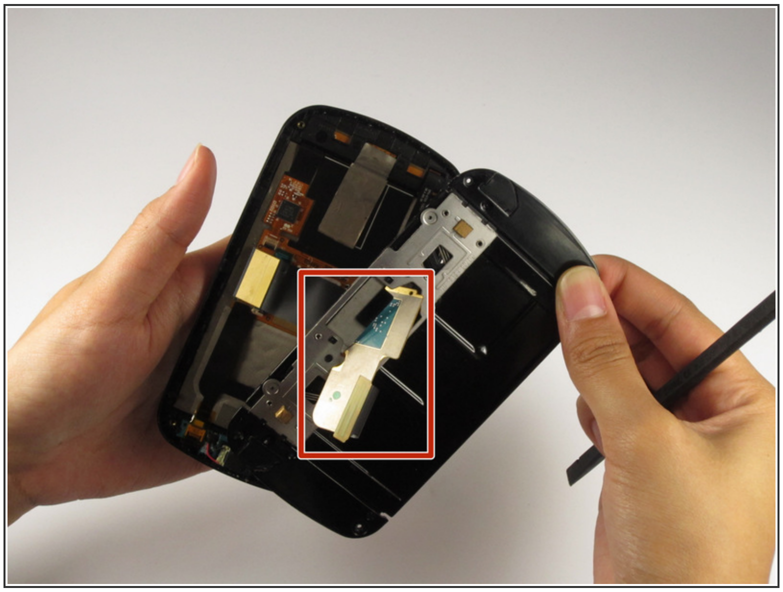
Step 14 — Removing the Slide Mechanism:

- Using the Spudger, remove the two black screw covers.
- Using the Philips screwdriver carefully unscrew the four corner screws.

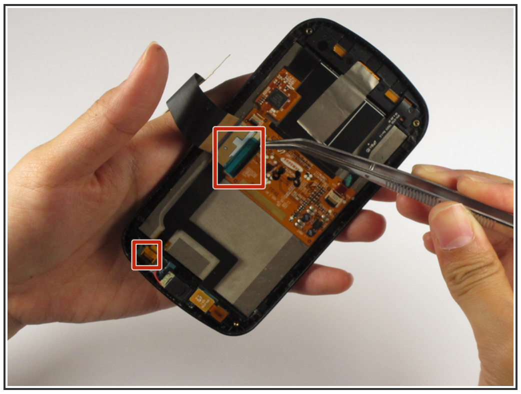
Step 15 — Removing the Slide Mechanism (continued):

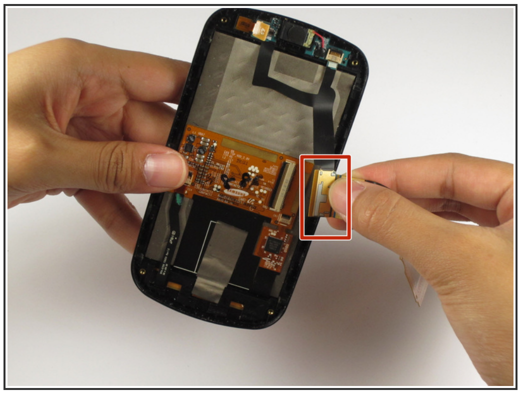


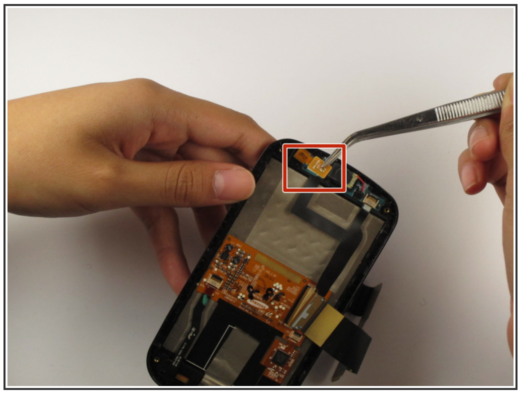


- Using the flat edge of the spudger, pry off the slide mechanism.
  - ⚠ Be careful not to push the prying tool too far in since it can damage the phone.
- Carefully separate the slide mechanism while avoiding the flex cable.

Step 16 — Removing the Flex Cable:

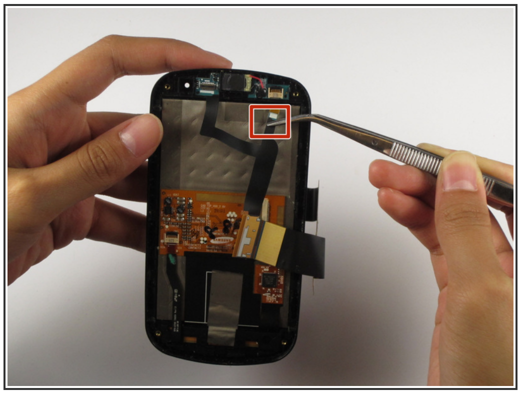
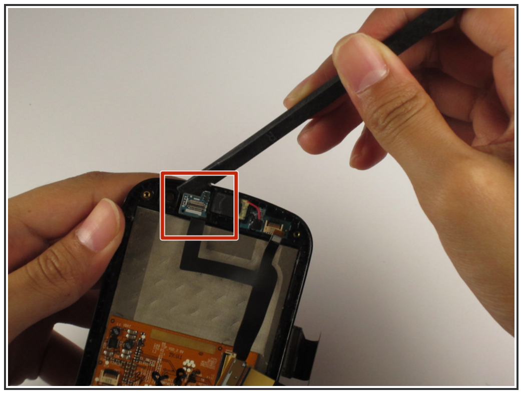
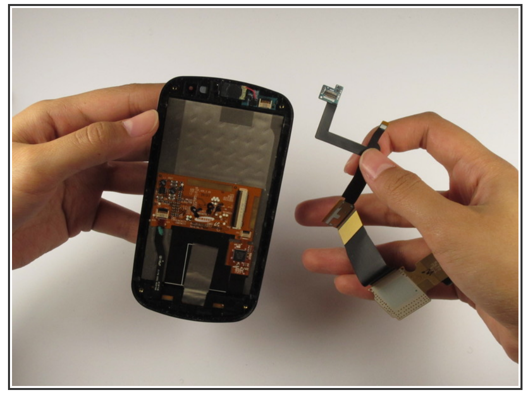






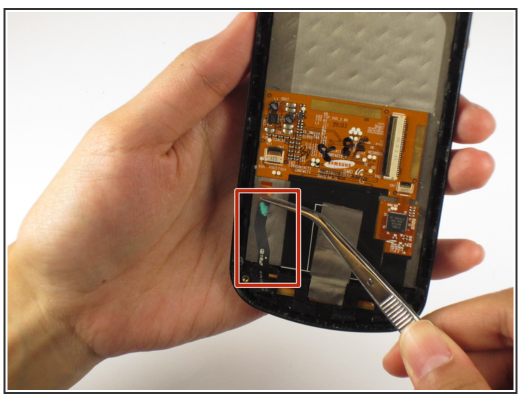
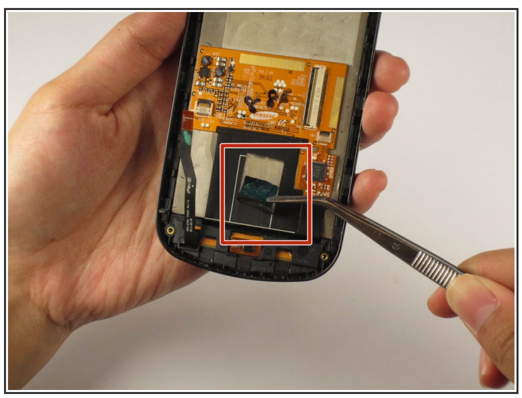
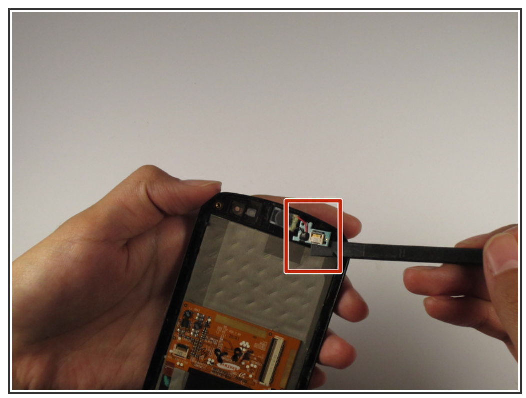
- Using the Tweezers carefully remove all the blue tape.
- Unsnap and pull out the large portion of the flex cable.
- Using the Tweezers Pull off the front face camera.

Step 17 — Removing the Flex Cable (continued):

- Using the Tweezers carefully pull out the smaller portion of the flex cable.
- Using the flat edge of the spudger, pop out the last part of the flex cable.

Step 18 — Separating the Screen:

- Using the Tweezers, pull out the touch sensor flex cable.
- Using the Tweezers, Fold back the strip of white tape.
- Using the Spludge, pop out the speaker assembly.

Step 19 — Separating the Screen (continued):





- Carefully pull apart the frame and the screen.
- ⓘ At this point, you can replace the LCD screen.

To reassemble your device, follow these instructions in reverse order.

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